LEAP-Agri-project

OPTIBOV

Local traditional breeds,
well-adapted to their ecosystems, **will be lost**
if crossbreeding or breed replacement are not monitored

OUR AIM

To contribute key information towards improving the performance of traditional cattle breeds while maintaining their biodiversity

HOW?

We want to find DNA markers in the genomes of your animals related to **ecosystem adaptation and disease resistance** which can be used together with production markers for future genetic improvement

WHAT WE ASK

Your collaboration to **collect biological samples and record phenotypes** such as diseases, production, abnormalities, etc., **in a few selected animals over the course of 2 years**

WHAT'S IN IT FOR YOU

- **You and your animals will be a part of an international scientific research project**
- **The information records** of both your animals and other animals in the study are **available for you to consult and compare**
- **Access to our database through the OPTIBOV app on your mobile**, where you can **upload your records** and **check information** on your animals
- **Useful genomic information for improved animals by selection**
- **A reward certificate after 2 years in this research project**

OPTIBOV

LEAP-AGRI
A Long term EU-Africa research and innovation Partnership on food and nutrition security and sustainable AGRIculture

EUROPE

North, Finland



Eastern, Northern, Western Finncattle

Center, Netherlands



Dutch Belter Lakenvelder

Groninger Whiteheaded (Blaarkop)

Meuse-Rhine-Yssel

South, Portugal



Barrosã

Mertolenga

Mirandesa

AFRICA

North, Egypt



Baladi: Damietta, Maryuti, Menufi

Center, Uganda


Ankole

East African Zebu

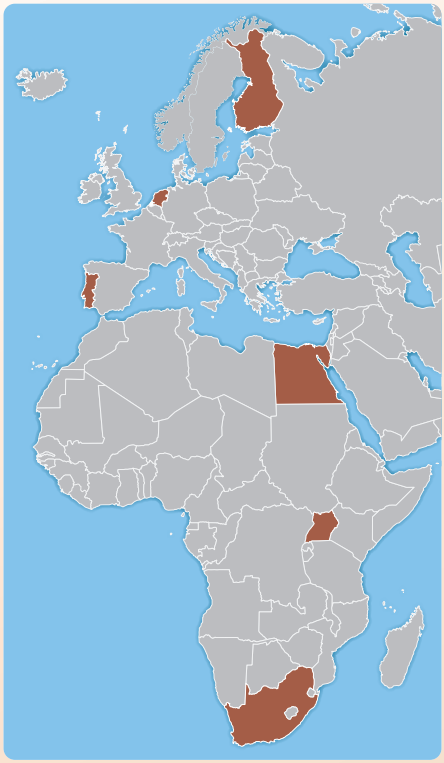
South, South Africa



Afrikaner

Nguni

Tuli



TRAITS/INFORMATION OF INTEREST

- Ecosystem/climate conditions
- Temperature/humidity index
- Availability of water/ food
- Food quality
- Type of food (grazing, supplements, other)
- Disease recording
- Disease resistance
- Parasite infections (e.g. ticks, nematodes)
- Housing (outdoor/indoor)
- Production records
- Calving interval/total number of calves
- Age at first calf
- Longevity
- Treatments
- Biochemical measurements on blood
- Immunity parameters
- MHC haplotypes

CONTACT: richard.crooijmans@wur.nl